CE

Model Number

OIT300-F113-B12-CB2

Optical high temperature identification system, 100 to 270 mm

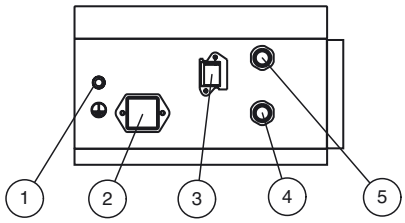
Features

- High-temperature code carrier up to 500 °C (932 °F)
- Sturdy and compact design
- Integrated illumination
- Large sensing range
- High depth of focus

Function

The stationary scanner OIT300-F113-B12-CB2 is an optical identification system using the methods of industrial image processing, which finds application in automated manufacturing processes.
For this reason, the high-temperature identification system OIT is fitted with code carriers with massive metal plates provided with a perforated matrix, which can withstand temperatures up to 500 °C and high mechanical loads.
Simple installation as well as commissioning without complicated and long-winded TEACH-IN enable fast application. Plug-in connections for fast exchange of devices and the control with simple command sets through an Ethernet interface ensure very easy operation. A scratch resistant quartz glass pane, which can be replaced, if and when required, as well as the stable metal housing turn the OIT300-F113-B12-CB2 into a robust and powerful identification system.

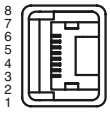
Indicating / Operating means



1	Grounding screw
2	Power supply
3	Network
4	Trigger
5	external illumination

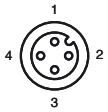
Electrical connection

8-pin Network connection
(LAN)



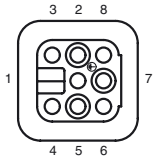
Pin	Signal
1	Transmit data (+)
2	Transmit data (-)
3	Receive data (+)
4	not assigned
5	not assigned
6	Receive data (-)
7	not assigned
8	not assigned

4-pin M12 socket
(external illumination)



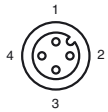
Pin	Signal
1	24 V power supply
2	Laser control
3	Ground
4	Illumination control

8-pin Harting connection
(Process)



Pin	Signal
1	Composite error output
2	External ground
3	Mode bit 1
4	Mode bit 0
5	24 V external power supply
6	24 V device power supply
7	Trigger release input
8	Device ground

4-pin M12 socket
(Trigger)



Pin	Signal
1	24 V power supply
2	not assigned
3	Ground
4	Trigger signal

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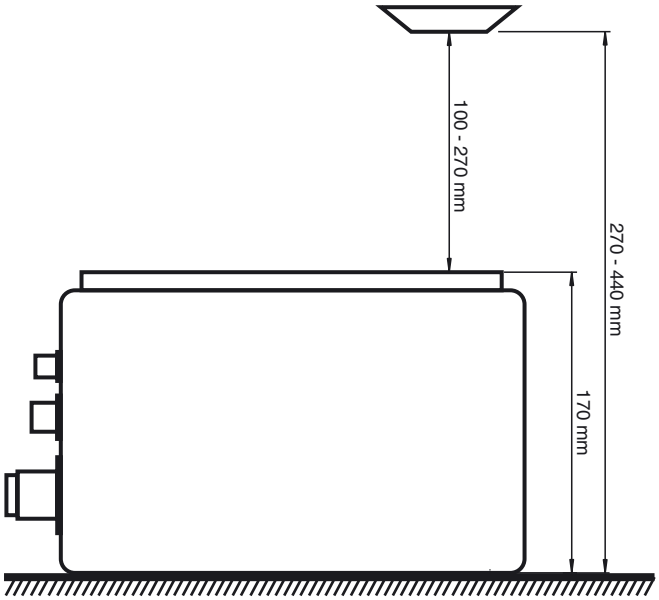
Technical data

General specifications		
Light source		Integrated LED lightning
Light type		infrared
Symbologies		Hole matrix Value range: 4-digit numerical, between 1 and 4095 Code carrier size: 80 mm x 36 mm
Read distance		adjustable 100 ... 270 mm
Depth of focus		± 50 mm
Reading field		210 mm x 160 mm at max. read distance
Sensor principle		Camera system
Evaluation frequency		5 Hz
Target velocity		triggered ≤ 0.5 m/s
Indicators/operating means		
Operating display		LED green: supply LED green: ready
Function display		Yellow LED: trigger Yellow LED: code read Red LED: pre-fault Red LED: group error
Electrical specifications		
Operating voltage	U_B	24 V DC ± 15% , PELV
Operating current		250 mA without output drivers
Interface		
Physical		Ethernet
Protocol		TCP/IP
Transfer rate		100 MBit/s
Output		
Number/Type		1 electronic output, PNP, optically decoupled
Switching voltage		to be applied externally 24 V ± 15 % PELV
Switching current		100 mA each output
Mechanical specifications		
Protection degree		IP64
Connection		8-pin Harting HAN RJ-45 2 x 5-pin M12 socket
Material		
Housing		diecast aluminum powder coated
Mass		approx. 4000 g
Compliance with standards and directives		
Directive conformity		
EMC Directive 2004/108/EC		EN 61326-1 , EN 61000-6-4
Standard conformity		
Noise immunity		EN 61326-1
Emitted interference		EN 61000-6-4:2001
Protection degree		EN 60529

Notes



Accessories

OIC-C11V4A-CB2
Code carrier for optical high-temperature identification system, stainless steel

V8HAN-G-10M-PVC-ABG
Cable box, Harting, 8-pin, shielded, PVC cable

V45-GP-10M-PUR-ABG-V45-G
Connecting cable, RJ-45 to RJ-45, PUR cable

V45-GP
Field-attachable "Push-Pull" connector

V45-G
Field-attachable male connector

V1S-G-10M-PVC
Cable connector, M12, 4-pin, PVC cable

V8HAN-G
Cable box, Harting, 8-pin, easy to assemble

OITControl
Software for OIT high temperature identification system

OIZ-FG500
Replacement glass for series OIT300, OIT500 and OIT1500

Other suitable accessories can be found at www.pepperl-fuchs.com

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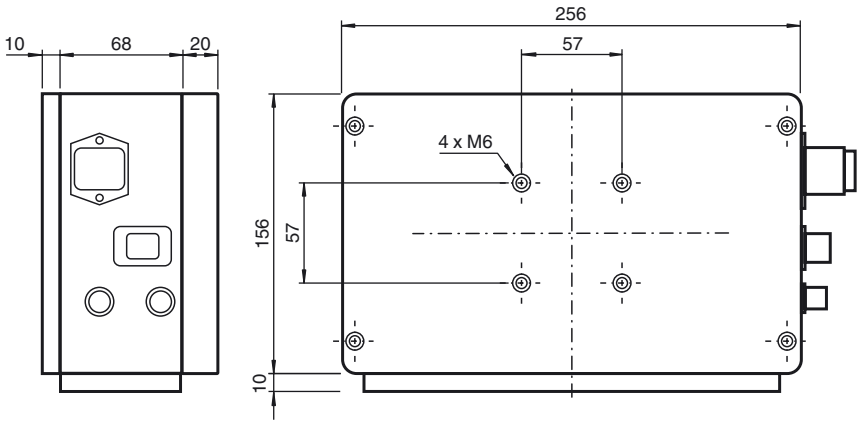
Dimensions



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